

Abstract

A method for preparing a graphite nanofiber is herein provided, which comprises a raw gases are supplied on the surface of a substrate provided thereon with a catalyst layer for the growth of graphite nanofibers according to the CVD technique, wherein the method is characterized by forming a catalyst layer having a desired thickness and then forming, on the catalyst layer of the substrate, a graphite nanofiber whose overall thickness is controlled and which comprises a graphite nanofiber layer and a non-fibrous layer. The resulting graphite nanofibers can be used in an emitter or a field emission display element. The thickness of the catalyst layer formed on a substrate is controlled by the method and this in turn permits the control of the thickness of the non-fibrous layer formed on the catalyst layer and the control of the thickness of the graphite nanofibers likewise formed on the catalyst layer.